Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	DuPont Teijin Films
Facility Name:	DuPont Teijin Films
Facility Location:	111 Discovery Drive P.O. Box 411 Hopewell, Virginia 23860
Registration Number:	50418
Permit Number:	PRO-50418

January 1, 2005
Effective Date

January 1, 2010
Expiration Date

Robert G. Burnley
Director, Department of Environmental Quality

December 29, 2004
Signature Date

Table of Contents, 2 pages
Permit Conditions, 37 pages

TABLE OF CONTENTS

I. Facility Information

Permittee/Facility
DuPont Teijin Films
111 Discovery Drive
P.O. Box 411
Hopewell, Virginia 23860

Responsible Official
Mr. Donald L. Weaver
Plant Manager

Facility Contact
Mr. Wade B. Lanning
Environmental Engineer
(804) 530-9456

Source Description

County-Plant No.: 51-041-00073

SIC Code 2821 – DuPont Teijin Films Division operates a polymer film manufacturing facility in Chesterfield County, Virginia. A variety of products used in the production of a wide range of consumer products and product packaging are manufactured at the facility.

II. Emission Units

Polymer Manufacturing and Wastewater Operations, including the following:

Reference No.	Equipment Description	Maximum Capacity
0110	One (1) Hotwell	12,300 gallons
1051	One (1) Main Cooling Tower	15,700 gallons per minute
0120	One (1) Polymer Plant Cooling Tower	600 gallons per minute
1028	One (1) Effluent pit	18,000 gallons
1061	One (1) Equalization Basin	180,000 gallons
1029	One (1) Collection Sump	3,800 gallons
1062	One (1) Bio-treatment Plant(Two Aeration Basins; 220,000 gallons each)	440,000 gallons
0139	One (1) Effluent Tank	6,700 gallons
1027	One (1) Still Wash Tank	174,000 gallons
1026	One (1) Incinerator Pre-Burn Tank	8,000 gallons
1006	One (1) Coen Model #215 Wastewater Incinerator	4 gallons/minute
0124-0125	Two (2) Virgin Glycol Storage Tanks	21,100 gallons each
0129-0134	Six (6) Recovered Glycol Storage Tanks	4100 gallons each
0136	One (1) Blended Glycol Storage Tank	21,100 gallons
0151-0152	Two (2) Ethylene glycol stills and associated ejector vents	5,000 gallons each
0137-0138	Two (2) DMT Storage Tanks	37580 gallons each
0126-0128	Three (3) Crude Glycol Tanks	21,300 gal each
0101	Two-Stage Polymer Reactor System L1, including but not limited to one EI batch reactor (with a total operating vapor space of 190 cubic feet), one capacity vessel, one methanol/ethylene glycol distillation column, one autoclave batch reactor, and two condensers/heat exchangers	1000 gals/batch (raw materials)
0102	Two-Stage Polymer Reactor System L2, including but not limited to one EI batch reactor (with a total operating vapor space of 190 cubic feet), one capacity vessel, one methanol/ethylene glycol distillation column, one autoclave batch reactor, and two condensers/heat exchangers	1000 gals/batch (raw materials)
0103	Two-Stage Polymer Reactor System L3, including but not limited to one EI batch reactor (with a total operating vapor space of 190 cubic feet), one capacity vessel, one methanol/ethylene glycol distillation column, one autoclave batch reactor, and two condensers/heat exchangers	1000 gals/batch (raw materials)
0121	One (1) Methanol Receiver vessel	1475 gallons
0122-0123	Two (2) Methanol Storage Tanks	13,000 gallons each
0104	Two-Stage Polymer Reactor System L4, including but not limited to one EI batch reactor (with a total operating vapor space of 190 cubic feet), one capacity vessel, one methanol/ethylene glycol distillation column, one autoclave batch reactor, and two condensers/heat exchangers	1000 gals/batch (raw materials)

Industrial Boiler and Process Heater Operations, including the following:

Reference No.	Equipment Description	Maximum Capacity
1001	Cleaver Brooks Model DL52E distillate oil/natural gas -fired boiler (common stack with #1002)	51 MMBtu/hr
1002	Cleaver Brooks Model DL52E distillate oil/natural gas -fired boiler (common stack with #1001)	51 MMBtu/hr
1003	Cleaver Brooks Model DL48E distillate oil/natural gas -fired boiler	47 MMBtu/hr
1004	Struther-Wells distillate oil/natural gas -fired Dowtherm heater	14 MMBtu/hr
1005	Struther-Wells distillate oil/natural gas -fired Dowtherm heater	14 MMBtu/hr

Film Line Coating Operations, including the following:

Reference No.	Equipment Description	Maximum Capacity
L40 Coating System	one self-fabricated 41" polyester film coating application system	20 gallons/hour
L41 Coating System	one self-fabricated 41" polyester film coating application system	20 gallons/hour
L42 Coating System	one self-fabricated 41" polyester film coating application system	20 gallons/hour
L43 Coating System	one self-fabricated 41" polyester film coating application system	20 gallons/hour
L44 Coating System	one self-fabricated 41" polyester film coating application system	20 gallons/hour
L45 Coating System	one self-fabricated 45" polyester film coating application system	20 gallons/hour
L46 Coating System	one self-fabricated 80" polyester film coating application system	30 gallons/hour
L47 Coating System	one self-fabricated 45" polyester film coating application system	20 gallons/hour

Film Line 40, including the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
4001	Virgin Head Hopper Cyclone	11.3
4002	Virgin Head Hopper	11.3
4003	Reclaim Head Hopper Cyclone	11.3
4004	Reclaim Head Hopper	11.3
4011	Crystallizer Filter Receiver	2.0
4012	Main Dryer System	2.0
4021	L40 Casting Drum (no external vent)	2.0
4031	Stenter Oven - Neutral Zone	2.0
4032	Stenter Oven - Fume Exhaust	2.0

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
4033	Stenter Oven - Clip Cooling Exhaust	2.0
4034	Stenter 3rd Crystallizer	2.0
4035	Stenter Cooling Zone	2.0
		2.0

Film Line 41, including the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
4101	Virgin Head Hopper Cyclone	11.3
4103	Reclaim Head Hopper Cyclone	11.3
4111	Main Dryer System	2.0
4121	L41 Casting Drum	2.0
4131	Stenter Oven - Neutral Zone	2.0
4132	Stenter Oven - Fume Exhaust	2.0

Film Line 42, including the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
4201	Virgin Head Hopper Cyclone	11.3
4203	Reclaim Head Hopper Cyclone	11.3
4211	Main Dryer System - Rotary Type Chip Crystallization Dryer (*)	2.0
4221	L42 Casting Drum	2.0
4231	Stenter Oven - Neutral Zone	2.0
4232	Stenter Oven - Fume Exhaust	2.0
4271	L42 House Vacuum	2.0

Film Line 43, including the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
4301	Virgin Head Hopper Cyclone	11.3
4303	Reclaim Head Hopper Cyclone	11.3
4305	Co-extrusion Head Hopper Feed Cyclone	11.3
4307	Coextrusion Chip Convey System	11.3
4311	Main Dryer System - Rotary Type Chip Crystallization Dryer (*)	2.5

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
4313	Co-extrusion Dryer System	2.5
4314	Main Extruder Vacuum Pump	2.5
4322	Casting Drum	2.5
4333	Stenter Oven - Neutral Zone	2.5
4332	Stenter Oven – 1st Preheat	2.5
4331	Stenter Oven - Clip Cooling Zone	2.5
4334	Stenter Oven - Fume Exhaust	2.5
4335	Stenter Oven - Cooling Zone	2.5
4361	Direct Edge Trim Refeed	1.25
4372	L43 House Vacuum System	0.006

(*) - all other film line (L40, L43-L47) dryers are hopper type chip crystallization dryers

Film Line 44, including the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
4403	Reclaim Head Hopper	11.3
4402	Virgin Head Hopper	11.3
4401	Virgin and Reclaim Head Hopper Feed Cyclone	11.3
4404	Co-extrusion Head Hopper Feed Cyclone	11.3
4412	Co-extrusion Chip Dryer	2.05
4411	Main Chip Dryer	2.05
4422	L44 Casting Drum (no external vent)	2.05
4432	Stenter Fume Exhaust	2.05
4433	Stenter Neutral Zone Exhaust	2.05
4434	Stenter Clip Cooling Exhaust	2.05
4435	Stenter 6th Crystallizer Exhaust	2.05
4431	Stenter Preheat Make-up Exhaust	2.05
4441	Corona Treater	2.05
4471	L44, L46 House Vacuum System	0.014
4461	Edge Trim and Splits Cutter Dust Collector	1.025

Film Line 45, including the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
4500	Virgin Head Hopper Feed Cyclone	11.3

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
4502	Reclaim Head Hopper Feed Cyclone	11.3
4506	Co-extrusion Head Hopper Feed Cyclone	11.3
4504	Master Batch Head Hopper Feed Cyclone	11.3
4511	Main Dryer System	2.5
4514	Main Extruder Vacuum Pump	2.5
4512	Co-extrusion Dryer System	2.5
4513	Master Batch Chip Dryer System	2.5
4522	L45 Casting Drum (no external vent)	2.5
4531	Stenter Oven - Fume and Neutral Zone	2.5
4532	Stenter Oven - Cooling Zone	2.5
4533	Stenter Oven - Clip Cooling Zone	2.5
4534	Stenter Oven - Preheat Oven 1	2.5
4561	L45 Cutters	1.25
4571	L40/L45 House Vacuum System	0.011

Film Line 46, including the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hr)
4601	Virgin and Reclaim Head Hopper Feed Cyclone	11.3
4611	L46 Main Dryer System	3.7
4406	L44/L46 Air Classifier	3.7
4621	L46 Casting Drum (no external vent)	3.7
4632	Stenter Oven - Fume and Neutral Zone	3.7
4633	Stenter Oven - Clip Cooling Zone	3.7
4634	Stenter Oven - Oven Exhaust	3.7
4631	Stenter Oven - Preheat Oven Exhaust	3.7
4661	F/D and Edge Trim Cutter	1.85
4662	Reclaim Cutter	1.85

Film Line 47, including the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hr)
4701	Virgin Head Hopper Feed Cyclone	11.3
4703	Reclaim Head Hopper Feed Cyclone	11.3
4705	Master Batch Head Hopper Feed Cyclone	11.3

Reference No.	Equipment Description	Maximum Capacity (ton/hr)
4711	Main Chip Dryer	3.7
4712	Main Extruder Vacuum	3.7
4721	L47 Casting Drum (no external vent)	3.7
4732	Stenter Oven - Neutral Zone Exhaust	3.7
4733	Stenter Oven - 1st Preheat Oven Exhaust	3.7
4734	Stenter Oven - Cooling Zone Exhaust	3.7
4735	Stenter Oven - Clip Cleaning Exhaust	3.7
4736	Stenter Oven - 4th Crystallizer & 1st Cooling Zone Exhaust	3.7
4737	Stenter Oven - Clip Cooling Exhaust	3.7
4738	Stenter Oven - Clip Debris Removal System	3.7
4761	L47 Cutters	1.85
4763	L47 House Vacuum System	0.009

Virgin Chip Bunkers, including the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
2001	Virgin Chip Bunker #1	7.5
2002	Virgin Chip Bunker #2	7.5
2003	Virgin Chip Bunker #3	7.5
2004	Virgin Chip Bunker #4	7.5
2005	Virgin Chip Bunker #5	7.5
2006	Virgin Chip Bunker #6	7.5
2007	Virgin Chip Bunker #7	7.5
2008	Virgin Chip Bunker #8	7.5
2009	Virgin Chip Bunker #9	7.5
2010	Virgin Chip Bunker #10	7.5
2011	Virgin Chip Bunker #11	7.5
2012	Virgin Chip Bunker #12	7.5
2013	Virgin Chip Bunker #13	7.5
2014	Virgin Chip Bunker #14	7.5
2015	Virgin Chip Bunker #15	7.5
2016	Virgin Chip Bunker #16	7.5
2017	Virgin Chip Bunker #17	7.5

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
2018	Virgin Chip Bunker #18	7.5
2019	Virgin Chip Bunker #19	7.5
2020	Virgin Chip Bunker #20	7.5
2021	Virgin Chip Bunker #21	7.5
2022	Virgin Chip Bunker #22	7.5
2023	Virgin Chip Bunker #23	7.5
2024	Virgin Chip Bunker #24	7.5

Flake Recovery Operations, including the following:

- Primary Flake Bunkers:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
6001	Primary Flake Bunker #1	4.5
6002	Primary Flake Bunker #2	4.5
6003	Primary Flake Bunker #3	4.5
6004	Primary Flake Bunker #4	4.5
6005	Primary Flake Bunker #5	4.5
6006	Primary Flake Bunker #6	4.5
6007	Primary Flake Bunker #7	4.5
6008	Primary Flake Bunker #8	4.5
6009	Primary Flake Bunker #9	4.5
6010	Primary Flake Bunker #10	4.5
6011	Primary Flake Bunker #11	4.5
6012	Primary Flake Bunker #12	4.5
6013	Primary Flake Bunker #13	4.5
6014	Primary Flake Bunker #14	4.5
6015	Primary Flake Bunker #15	4.5
6016	Primary Flake Bunker #16	4.5
6017	Primary Flake Bunker #17	4.5
6018	Primary Flake Bunker #18	4.5
6019	Primary Flake Bunker #19	4.5
6020	Primary Flake Bunker #20	4.5
6021	Primary Flake Bunker #21	1.25

- Intermediate Flake Bunkers:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
6041	Intermediate Flake Bunker #1	1.75
6042	Intermediate Flake Bunker #2	1.75
6043	Intermediate Flake Bunker #3	1.75
6044	Intermediate Flake Bunker #4	1.75
6045	Intermediate Flake Bunker #5	1.75

- Flake Dryers:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
6066a	Flake Dryer #1 (#1 and #4 share a common vent)	1.75
6066b	Flake Dryer #4 (#1 and #4 share a common vent)	1.75
6067a	Flake Dryer #2 (#2 and #3 share a common vent)	1.75
6067b	Flake Dryer #3 (#2 and #3 share a common vent)	1.75
6070	Flake Dryer # 5	1.75

Railroad car chip unloading operations, including but not limited to the following:

Reference No.	Equipment Description	Maximum Capacity (ton/hour)
2040-2041	Two (2) Railroad Car Chip Unloading Stations	7.5 each

III. Fuel Burning Equipment Operations

A. Limitations

Conditions #1-7 apply only to Boiler #1003. Conditions #8-9 apply only to boilers #1001-1002 and heaters #1004-1005 and the incinerator #1006. Condition #11 applies to all six units.

1. The annual fuel usage shall not exceed 402.6 x 106 cubic feet of natural gas or 2.85 x 106 gallons of No. 2 fuel oil.
(9 VAC 5-80-110 and Condition 4 of the NSR permit dated 2/25/1988)

2. Particulate emissions from the boiler shall not exceed 0.7 or 0.14 pounds per hour when using No. 2 oil or natural gas, respectively, or 2.85 tons per year total.
(9 VAC 5-80-110 and Condition 5 of the NSR permit dated 2/25/1988)

3. Sulfur dioxide emissions from the boiler shall not exceed 9.5 or 0.03 pounds per hour when using No. 2 oil or natural gas, respectively, or 40.47 tons per year total.
(9 VAC 5-80-110 and Condition 6 of the NSR permit dated 2/25/1988)

4. Nitrogen oxide emissions from the boiler shall not exceed 6.8 or 6.5 pounds per hour when using No. 2 oil or natural gas, respectively, or 28.5 tons per year total.
(9 VAC 5-80-110 and Condition 7 of the NSR permit dated 2/25/1988)

5. The approved fuels for the boiler are natural gas and No. 2 oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 8 of the NSR permit dated 2/25/1988)

6. The average sulfur content of the No. 2 oil to be burned in the boiler shall not exceed 0.20 percent by weight, per shipment. DuPont Teijin Films shall maintain records of all shipments purchased, indicating sulfur content per shipment. These records shall be available for inspection by the Board. They will be kept on file for a period of at least five (5) years.
(9 VAC 5-80-110 and Condition 9 of the NSR permit dated 2/25/1988)

7. Visible emissions from boiler #3 shall not exceed 20 percent opacity, except for one six-minute period in any one hour of not more than 30% opacity. Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section. This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-50-80, 9 VAC 5-80-110 and 9 VAC 5-50-20 A4)

8. Visible emissions from the incinerator, boilers #1001 and #1002 and Dowtherm heaters #1004 and #1005 shall not exceed 20 percent opacity, except for one six-minute period in any one hour of not more than 60% opacity. Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section. This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-40-940, 9 VAC 5-80-110 and 9 VAC 5-40-20 A4)

9. Emissions from the operation of boilers #1001 and #1002 and Dowtherm heaters #1004 and #1005 shall not exceed the limits specified below:

Particulate Matter	0.307 pounds per million BTU
Sulfur Dioxide	2.64 pounds per million BTU

(9 VAC 5-80-110 and 9 VAC 5, Chapter 40, Article 8)

10. Emissions from the operation of the incinerator (ref. #1006) shall not exceed the limits specified below:

Particulate Matter	0.14 grains/dscf @ 12%CO_2

(9 VAC 5-80-110 and 9 VAC 5, Chapter 40, Article 7)

B. Periodic Monitoring

11. Each incinerator, boiler and heater shall be observed visually at least once each operating month for at least a brief time period to determine which emissions units have any visible emissions (does not include condensed water vapor/steam), unless a 40 CFR 60 Appendix A Method 9 visible emissions evaluation is performed on the emissions unit. Each emissions unit observed having any visible emissions shall be followed up with a 40 CFR 60 Appendix A Method 9 visible emissions evaluation unless the visible emission condition is corrected as expeditiously as possible and recorded, and the cause and corrective measures taken are recorded.
(9 VAC 5-80-110)

12. If the incinerator is operated at any time within the term of this permit, the permittee shall develop and submit, to the Director, Piedmont Region, for approval an operation plan for the incinerator. The operation plan shall specify the incinerator operating parameters that will be monitored by the permittee in order to ensure compliance with the emission limitation contained in Condition #10. The plan shall also specify monitoring frequencies and methods, appropriate operating parameter ranges and recordkeeping and deviation reporting procedures for the selected operating parameters. The plan shall be submitted for approval no later than 30 days before the incinerator begins operation.
(9 VAC 5-80-110)

13. If the incinerator is operated at any time within the term of this permit, the permittee shall conduct performance tests on the incinerator for particulate matter to determine compliance with the emission limit contained in Condition #10 and to verify the operating parameter ranges specified in Condition #12. The tests shall be performed, and demonstrate compliance, no later than 90 days after the incinerator begins operation. Tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30 of State Regulations, and the test methods and procedures contained in each applicable section or subpart listed in 9 VAC 5-50-410. The details of the tests are to be arranged with the Director, Piedmont Region. The permittee shall submit a test protocol at least 30 days prior to testing. Four copies of the test results shall be submitted to the Director, Piedmont Region within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-80-110)

14. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:

    a. The monthly and annual consumption of natural gas and distillate oil by each boiler and heater. Annual consumption shall be calculated monthly as the sum of each consecutive 12-month period.

    b. Records necessary to demonstrate compliance with Condition #9.

    c. The fuel shipment records required by Condition #6.

    d. If the incinerator is operated at any time within the term of this permit, the records specified by the operating plan required by Condition #12

    e. The results of the monthly visible emission observations required by Condition #11 and details of any corrective action taken as a result of these inspections.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110)

15. The permittee shall report the results of any 40 CFR Part 60 Appendix A Method 9 opacity test performed as a result of Condition #11 above. If the test indicates the facility is out of compliance with a standard contained in either Conditions #7 or #8, the source shall also report the length of time associated with any exceedance of a standard and the corrective actions taken to correct the exceedance. This report shall be sent to the Director, Piedmont Regional Office within seven days of the applicable test unless otherwise noted in Section IX, Condition E.
(9 VAC 5-80-110)

C. MACT Subpart DDDDD

16. Unless other wise specified in 40 CFR 63 Subparts A and DDDDD, upon September 13, 2007, boilers #1001-1003 and Dowtherm Heaters #1004-1005 shall be in compliance with all applicable provisions of 40 CFR 63, Subparts A and DDDDD.
(40 CFR 63 Subparts A and DDDDD and 9 VAC 5-80-110)

IV. Film Line Operations

A. Limitations

17. Particulate matter emissions from the equipment listed below shall be controlled as described in the following table, or equivalent:

Vent No.	Equipment Description	Pollutant	Control Equipment	Model
4012	L40 Drier Fines Filter Receiver	TSP/PM10	Baghouse	Flex Kleen
4011	L40 Crystallizer Chip Filter Receiver	TSP/PM10	Baghouse	Young Industries #8813
4307	L43 Chip Convey System	TSP/PM10	Baghouse	Flex-Kleen 56 CTBS8 III
4361	L43 Edge Trim Refeed Cutter	TSP/PM10	Baghouse	Flex-Kleen 84-CT-18
4313	L43 Coextrusion Dryer	TSP/PM10	Baghouse	Flex-Kleen 28BVBC-9 III
4372	L43 Vacuum House System	TSP/PM10	Baghouse	Hoffman
4406	L44/L46 Air Classifier	TSP/PM10	Baghouse	Flex-Kleen 100WSBC-100
4412	L44 Coextrusion Dryer	TSP/PM10	Baghouse	Flex-Kleen 58CTBC8 III
4411	L44 Main Dryer System	TSP/PM10	Baghouse	Flex-Kleen 58CTBC14 III
4471	L44/L46 House Vacuum System	TSP/PM10	Baghouse	Hoffman #36 x 144 VAC Separator
4461	L44 Cutter	TSP/PM10	Baghouse	Flex-Kleen #100-WRC-144-III-G
4511	L45 Main Dryer System	TSP/PM10	Baghouse	Flex-Kleen 58 CTBG 14 III
4512	L45 Co-extrusion Dryer System	TSP/PM10	Baghouse	Flex-Kleen BVBS-9
4513	L45 Master Batch Dryer System	TSP/PM10	Baghouse	Young Ind. VC60-4-32
4561	L45 Cutters	TSP/PM10	Baghouse	Flex-Kleen 84 WRC 64
4571	L45 House Vacuum	TSP/PM10	Baghouse	Hoffman 36 x 144
4611	L46 Dryer System	TSP/PM10	Baghouse	Flex-Kleen No. 58CT-14
4661	L46 F/D and Edge Trim Cutter	TSP/PM10	Baghouse	Flex-Kleen No. 100 MRC-144
4662	L46 Reclaim Cutter	TSP/PM10	Baghouse	Flex-Kleen No. 84 WRBC-48
4711	L47 Dryer System	TSP/PM10	Baghouse	Flex-Kleen 58-CT-

Vent No.	Equipment Description	Pollutant	Control Equipment	Model
				14
4761	L47 Cutters	TSP/PM10	Baghouse	Ultra C-65-84
4763	L47 House Vacuum	TSP/PM10	Baghouse	Hoffman 36 x 96
6001-6021	Primary Flake Bunkers #1-#21 (21 total bunkers - Bunkers 1-4 are all controlled by a common baghouse, #19)	TSP/PM10	18 baghouses for the 21 bunkers	Flex-Kleen #100-CT-64-II-G
2040	Railroad Car Chip Unloading Station (two baghouses operated in parallel but not at the same time)	TSP/PM10	Baghouse	Ultra Industries #CB-24-84-ARR III & Flex-Kleen 84CTBC –24 Arg 3
2041	Railroad Car Chip Unloading Station	TSP/PM10	Baghouse	Ultra Industries #CB-24-84-ARR III
6066-6070	Flake Dryers	TSP/PM10	Three baghouses for the 5 dryers	Flex-Kleen 84-BVBS-16-III
6041-6045	Intermediate Flake Bunkers	TSP/PM10	One baghouse per bunker	Ultra Industries CB34-100 ARG II-G

(9 VAC 5-80-110 and Condition 3 of the NSR permit dated 12/30/2003)

18. Volatile Organic Compound (VOC) emissions from the film coating operations (L40-L47) shall be controlled by using coatings with VOC content no greater than 1.0 pound VOC per gallon coating, as applied, on a monthly average basis.
(9 VAC 5-80-110 and Condition 4 of the NSR permit dated 12/30/2003)

19. The yearly throughput of chip, flake, film, or batches for the following operations shall not exceed the specified amounts, calculated as the sum of each consecutive 12 month period:

Film Line 40 - 15,330 tons/yr
Film Line 43 - 17,520 tons/yr
Film Line 44 - 18,000 tons/yr
Film Line 45 - 21,900 tons/yr
Film Line 46 - 32,412 tons/yr
Film Line 47 - 32,412 tons/yr
Virgin Chip Bunkers - 90,000 tons/yr
Primary Flake Bunkers (#1-21) - 75,000 tons/yr

Total Railroad Car Chip Unloading Operations (#2040 #2041) - 41,500 tons/yr

Total Flake Dryers (#6066-6070) - 75,000 tons/yr

Total Intermediate Flake Bunkers (#6041-6045) - 75,000 tons/yr

Regardless of the throughput limits listed above, the yearly throughput of chip, flake, or film for the following individual emission units shall not exceed the specified amounts, calculated as the sum of each consecutive 12 month period.

Ref. #4361	- L43 Edge Trim Refeed Cutter	- 8,760 tons/yr
Ref. #4372	- L43 House Vacuum System	- 44 tons/yr
Ref. #4307	- L43 Coextrusion Chip Convey System	- 8,760 tons/yr
Ref. #4471	- L44/L46 House Vacuum System	- 126 tons/yr
Ref. #4461	- L44 Cutter	- 9,000 tons/yr
Ref. #4561	- L45 Cutters	- 10,950 tons/yr
Ref. #4571	- L40/L45 House Vacuum System	- 94 tons/yr
Ref. #4661	- L46 F/D and Edge Trim Cutter	- 16,206 tons/yr
Ref. #4662	- L46 Reclaim Cutter	- 16,206 tons/yr
Ref. #4761	- L47 Cutters	- 16,206 tons/yr
Ref. #4763	- L47 House Vacuum	- 81 tons/yr

Note: Compliance with the throughput limits specified above for House Vacuum Systems #4372, #4471, #4571 and #4763 shall be determined based upon 0.25% of the vacuum systems respective Film Line throughputs.
(9 VAC 5-80-110 and Condition 6 of the NSR permit dated 12/30/2003)

20. The yearly throughput of VOCs for all Film Line Coating Operations (L40-L47) shall not exceed 16.3 tons, calculated as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Condition 7 of the NSR permit dated 12/30/2003)

21. Emissions from the operation of the following equipment/operations shall not exceed the limits specified below:

	TSP lbs/hr - tons/yr	**PM10 lbs/hr - tons/yr**	**VOC lbs/hr - tons/yr**
Film Line 40	1.3 - 1.1	1.3 - 1.1	1.6 - 6.3
Film Line 43	3.3 - 5.7	3.3 - 5.7	4.2 - 9.5
Film Line 44	1.3 - 1.0	1.3 - 1.0	2.5 - 7.3
Film Line 45	2.6 - 1.7	2.6 - 1.7	4.6 - 11.5
Film Line 46	0.8 - 1.7	0.8 - 1.7	3.0 - 13.2
Film Line 47	1.9 - 1.7	1.9 - 1.7	3.9 - 17.0
Primary Flake Bunkers	9.2 - 3.8	9.2 - 3.8	
Film Line Coating Operations (Total for L40-L47)			170.0 - 16.3
Flake Dryers (Total for #6066-6070)	0.9 - 3.8	0.9 - 3.8	
Intermediate Flake Bunkers (Total for #6041-6045)	0.9 - 3.8	0.9 - 3.8	

(9 VAC 5-80-10 H and Condition 8 of the NSR permit dated 12/30/2003)

22. Visible emissions from each fabric filter listed in Condition #17 shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Visible emissions from all other film line emission points included in the significant emission unit table (Section II of this permit) shall not exceed 20 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-110 and Condition 10 of the NSR permit dated 12/30/2003)

B. Periodic Monitoring

23. Each baghouse listed in Condition #17 shall be equipped with a device to continuously measure the differential pressure drop across the baghouse. The devices shall be installed in accessible locations and shall be maintained by the permittee such that they are in proper working order at all times.
(9 VAC 5-80-110 and Condition 3 of the NSR permit dated 12/30/2003)

24. Each unit subject to Condition #22, except for Primary Flake Bunkers #1-#21, shall be observed visually at least once each operating month for at least a brief time period to determine which emissions units have any visible emissions (does not include condensed water vapor/steam), unless a 40 CFR 60 Appendix A Method 9 visible emissions evaluation is performed on the emissions unit. Each emissions unit observed having any visible emissions shall be followed up with a 40 CFR 60 Appendix A Method 9 visible emissions evaluation unless the visible emission condition is corrected as expeditiously as possible and recorded, and the cause and corrective measures taken are recorded.
(9 VAC 5-80-110)

25. Each Primary Flake Bunker (#1-#21) which operates for more than 24 consecutive hours in a month shall be observed visually at least once each month for at least a brief time period to determine whether the Primary Flake Bunker has any visible emissions (does not include condensed water vapor/steam), unless a 40 CFR 60 Appendix A Method 9 visible emissions evaluation is performed on the Primary Flake Bunker. Each Primary Flake Bunker observed having any visible emissions shall be followed up with a 40 CFR 60 Appendix A Method 9 visible emissions evaluation unless the visible emission condition is corrected as expeditiously as possible and recorded, and the cause and corrective measures taken are recorded.
(9 VAC 5-80-110)

26. For each visible emission observation of a baghouse or fabric filter listed in Condition #17 as required by Conditions #24 or #25, the permittee shall also measure and record the differential pressure drop across the baghouse or fabric filter.
(9 VAC 5-80-110)

27. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:

    a. The yearly throughput of chip, flake, or film (as appropriate) for each process line and piece of equipment listed in Condition #19, calculated as the sum of each consecutive 12 month period, as well as any other information required to demonstrate compliance with the emission limits contained in condition #21.

    b. The combined (for all coating lines) yearly throughput of coating operation VOCs, calculated as the sum of each consecutive 12 month period, as well as any other information required to demonstrate compliance with the emission limits contained in condition #21.

    c. For each month where a coating formulation is applied in the film coating operation which exceeds the VOC content specified in Condition #18, the VOC content (lbs/gal), as applied, of each coating formulation used in the film coating operation shall be recorded for the

month. If none of the coatings used in the month contain greater than 1.0 lbs VOC/gal, maintain a record of the VOC content, as applied, of all coating formulations.

d. For each month where a coating formulation is applied in the film coating operation which exceeds the VOC content specified in Condition #18, the amount (gallons) of each coating formulation applied in the film coating operation that month and the volume weighted average VOC content (lbs/gal), as applied, of the coating formulations used in the film coating operation for that month.

e. The results of the monthly visible emission observations and differential pressure readings required by Conditions #24-26 and details of any corrective action taken as a result of these inspections.

The records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110 and Condition 11 of the NSR permit dated 12/30/2003)

28. The permittee shall report the results of any 40 CFR Part 60 method 9 opacity test performed as a result of Conditions #24 or #25. If the test indicates the facility is out of compliance with a standard contained in Condition #22, the source shall also report the length of time associated with any exceedance of a standard and the corrective actions taken to correct the exceedance. This report shall be sent to the Director, Piedmont Regional Office within seven days of the applicable test unless otherwise noted in Section IX, Condition E.
(9 VAC 5-80-110)

C. MACT Subpart JJJJ

29. Unless other wise specified in 40 CFR 63 Subparts A and JJJJ, upon December 5, 2005, the film line coating operations shall be in compliance with all applicable provisions of 40 CFR 63, Subparts A and JJJJ.
(40 CFR 63 Subparts A and JJJJ and 9 VAC 5-80-110)

V. Polymer Plant Operations

A. Limitations

30. The yearly production (in batches) for the following operations shall not exceed the specified amounts, calculated as the sum of each consecutive 12 month period:

Total Crude Glycol Tanks (#0126-0128)	- 17,000 total batches/yr - 15,000 DMT batches/yr
L1 Polymer Reactor/Demister System (#0101)	- 4,040 DMT batches/yr - (X1) TA batches/yr, where

(X1) = 35,374 – 8.755 * (DMT1), where (DMT1) is the number of DMT1 batches produced by L1 in any consecutive 12 month period.

L2 Polymer Reactor/Demister System (#0102)	- 4,040 DMT batches/yr - (X2) TA batches/yr, where

(X2) = 35,374 – 8.755 * (DMT2), where (DMT2) is the number of DMT batches produced by L2 in any consecutive 12 month period.

L3 Polymer Reactor/Demister System (#0103)	- 4,040 DMT batches/yr - (X3) TA batches/yr, where

(X3) = 35,374 – 8.755 * (DMT3), where (DMT3) is the number of DMT batches produced by L3 in any consecutive 12 month period.

L4 Polymer Reactor/Demister System (#0104)	- 4,040 DMT batches/yr - (X4) TA batches/yr, where

(X4) = 35,374 – 8.755 * (DMT4), where (DMT4) is the number of DMT batches produced by L4 in any consecutive 12 month period.

(9 VAC 5-80-110, Condition D.3 of 11/30/99 Consent Order and Condition 6 of the NSR permit dated 12/30/2003)

31. VOC emissions from the operation of the following equipment/operations shall not exceed the limits specified below:

	lbs/hr	tons/yr
Crude Glycol Tanks (Total for #0126-0128)	3.3	7.1
L1 Polymer Reactor System (#0101)	3.2	13.0
L2 Polymer Reactor System (#0102)	3.2	13.0
L3 Polymer Reactor System (#0103)	3.2	13.0
L4 Polymer Reactor System (#0104)	3.2	13.0

(9 VAC 5-80-110 and Condition 8 of the NSR permit dated 12/30/2003)

32. The two methanol storage tanks shall be equipped with a control method that will remove, destroy or prevent the discharge into the atmosphere of at least 60% by weight of VOC emissions during the filling of such tank. The use of a submerged fill pipe or bottom filling shall be considered acceptable achievement of this standard.
(9 VAC 5-80-110, 9 VAC 5-40-3430 B and 9 VAC 5-40-3440 B)

33. VOC emissions from the Ethylene Glycol stills vacuum system shall be controlled by the use of non-contact condensers on the Ethylene Glycol stills vacuum system and by diverting the resulting condensate away from the hotwell/cooling tower system.
(9 VAC 5-80-110 and Condition E.3 of the 5/30/1996 RACT Agreement)

34. VOC emissions from the two methanol storage tanks and the methanol receiver tank shall be controlled in accordance with 40 CFR 63, Subpart JJJ. The methanol tanks and wet scrubber shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition D.4 of the 11/30/1999 Consent Order)

35. Fugitive VOC emission from the polymer plant shall be controlled by a Leak Detection and Repair (LDAR) Program in accordance with 40 CFR 60, Subpart VV as if the polymer plant was considered an "affected facility" under 40 CFR 60.480 and as if all raw materials, intermediate and final products used/produced at the facility were listed in 40 CFR 60.489. The permittee shall comply with all applicable procedures and standards and all test, recordkeeping and reporting requirements of 40 CFR 60, Subpart VV. The required reports of 40 CFR 60.487 shall not be submitted to the Administrator, but instead, shall be kept at the site for the most recent 5 year period and shall be available for inspection during normal working hours.
(9 VAC 5-80-110 and Condition E.2 of the 5/30/1996 RACT Agreement)

36. Fugitive Hazardous Air Pollutant (HAP) emissions from the polymer plant shall be controlled by a Leak Detection and Repair (LDAR) Program in accordance with 40 CFR 63.1331. Where the LDAR requirements of this condition differ from those of Condition #35, the more stringent requirement shall apply.
(9 VAC 5-80-110 and 40 CFR 63.1331)

37. The permittee shall comply with the requirements of 40 CFR 63 Subpart JJJ through the use of an Emission Average as provided in 40 CFR 63.1332. Unless otherwise noted in this permit, the permittee shall operate the polymer plant as outlined in the 10/1997 Emission Averaging Plan as amended by the 11/15/2002 Notice of Compliance Status report and subsequent periodic reports. The following emission units are currently included in the Emissions Average:

Reference #	Description	Group 1 or 2 Status	Emission Unit Category	Credit/Debit Source
0101	Polymer Reactor System L1	2	Batch Process Vent	Credit
0102	Polymer Reactor System L2	2	Batch Process Vent	Credit
0103	Polymer Reactor System L3	2	Batch Process Vent	Credit
0104	Polymer Reactor System L4	2	Batch Process Vent	Credit
0121	Methanol Receiver	1	Storage Vessel	Debit
0122	Methanol Storage Tank	1	Storage Vessel	Debit
0123	Methanol Storage Tank	1	Storage Vessel	Debit
0139	Effluent Tank	1	Wastewater Steam	Debit
0127	Incinerator Tank	1	Wastewater Steam	Debit
1028	Effluent Pit	1	Wastewater Steam	Debit
1029	Collection Sump	1	Wastewater Steam	Debit
1061	Equalization Basin	1	Wastewater Steam	Debit
N/A	Debit Generating Activities associated with off-site transfers of wastewater	1	Wastewater Stream	Debit

For all emission points included in the emissions average, the permittee shall perform the following tasks:

a. Calculate and record monthly debits for all Group 1 emission points that are controlled to a level less stringent than the reference control technology or standard for those emission points. The equations in 40 CFR 63.1332(g) shall be used to calculate debits.

b. Calculate and record monthly credits for all Group 1 and Group 2 emission points that are over-controlled to compensate for the debits. The equations in 40 CFR 63.1332(h) shall be used to calculate credits.

c. Demonstrate that annual credits calculated according to 40 CFR 63.1332(h) are greater than or equal to debits calculated for the same annual compliance period according to 40 CFR 63.1332(g).

d. Demonstrate that debits calculated for a quarterly (3-month) period according to 40 CFR 63.1332(g) are not more than 1.30 times the credits for the same period calculated according to 40 CFR 63.1332(h). Compliance for the quarter shall be determined based on the ratio of credits and debits from that quarter, with 30 percent more debits than credits allowed on a quarterly basis.

e. Record and report quarterly and annual credits and debits in the Periodic Reports as specified in §63.1335(e)(6). Every fourth Periodic Report shall include a certification of compliance with the emissions averaging provisions as required by §63.1335(e)(6)(xi)(C)(*2*).

f. The permittee shall demonstrate that the emissions from the emission points included in the emissions average will not result in greater hazard or risk to human health or the environment than if the emission points were controlled according to the provisions in §§63.1314, 63.1315, 63.1316 through 63.1320, 63.1321, and 63.1330.

g. Demonstrate compliance with the requirements of 63.1332(m).
(9 VAC 5-80-110 and 40 CFR 63.1332)

38. Hazardous Air Pollutant (HAP) containing wastewater streams that are discharged to the effluent pit, collection sump and equalization basin shall be controlled by using the on-site bio-treatment plant (or equivalent off-site treatment). The bio-treatment plant (or off-site Treatment) shall control the HAP emissions by removing sufficient HAP from the wastewater to meet the requirements of 40 CFR 63.138.
(9 VAC 5-80-110, 40 CFR 63.1330 and 40 CFR 63.138)

39. The permittee shall develop and implement a written start-up, shutdown and malfunction (SSM) plan as specified in 40 CFR 63.6(e)(3). This plan shall describe, in detail, procedures for operating and maintaining the polymer plant during periods of SSM and a program for corrective action for malfunctioning process and air pollution control equipment used to comply with 40 CFR 63, Subpart JJJ.
(9 VAC 5-80-110 and 40 CFR 63.1335(b)(1))

40. Except where this permit is more restrictive than the applicable requirement, the polymer plant shall be operated in compliance with all requirements of 40 CFR 63 Subparts A and JJJ.
(9 VAC 5-80-110 and 40 CFR 63 Subparts A and JJJ)

B. Periodic Monitoring

41. The permittee shall monitor each heat exchange system subject to 40 CFR 63.1328, including the eight heat exchanger systems (one for each EI reactor and autoclave) on Polymer Reactor systems L1-L4, the two heat exchange systems (with one common sampling point) on each of the two glycol distillation columns and the bulk cooling waters supply leaving the main cooling tower (#1051), for leaks on a quarterly basis in accordance with 40 CFR 63.104(b). Whenever a leak is detected, the permittee shall repair the leak in accordance with the requirements of 40 CFR 63.104(d).
(9 VAC 5-80-110 and 40 CFR 63.1328)

42. The permittee shall install, operate and maintain continuous monitoring devices for the following three operating parameters:

    a. Scrubber water temperature.

    b. Scrubber water recirculation flow rate.

    c. Scrubber water makeup flow rate.

    In addition, the permittee shall conduct monitoring for the following indicator parameter for the wet scrubber:

    d. Scrubber blowdown Total Organic Compounds (TOC) concentration. This parameter shall be monitored on a monthly basis as a 24-hour composite and shall be used to assess the performance of the scrubber HAPs removal efficiencies within the emissions averaging calculations.

    Alternatively, the permittee shall install, operate and maintain continuous monitoring devices for any parameters designated in an United States Environmental Protection Agency approved site-specific monitoring plan.
    (9 VAC 5-80-110 and 40 CFR 63.1334)

43. The permittee shall operate the wet scrubber in a manner consistent with the minimum or maximum (as appropriate) operating parameter values as specified below:

Parameter	Operating Value (24-hr average)
Scrubber water temperature	77 degrees F - maximum
Scrubber water recirculation flow rate	16 gallons/minute - minimum
Scrubber water makeup flow rate	6 gallons/minute – minimum

    The permittee shall continuously monitor and record the values of these operating parameters during all periods of scrubber operation.
    (9 VAC 5-80-110 and 40 CFR 63.1334)

44. The permittee shall secure the scrubber bypass line damper or valve in the non-diverting position with a car-seal or a lock-and-key type configuration. A monthly visual inspection of the seal or closure mechanism shall be performed to ensure that the damper or valve is maintained in the non-diverting position and emissions are not diverted through the bypass line.
    (9 VAC 5-80-110 and 40 CFR 63.1324(e))

45. The permittee shall monitor the following parameters for both aeration basins of the bio-treatment plant during all periods of operation:

    a. Mixed Liquor Suspended Solids – three (3) samples/measurements per week

    b. Dissolved Oxygen – four (4) samples/measurements per week

    c. Aeration Basin pH – four (4) samples/measurements per week

    (9 VAC 5-80-110 and 40 CFR 63.1330 and 40 CFR 63.143(c))

46. The permittee shall operate both aeration basins of the bio-treatment plant in a manner consistent with the operating parameter values specified below during all periods of operation:

Parameter	Operating Value
Mixed Liquor Suspended Solids	greater than 3000 mg/l
Dissolved Oxygen	greater than or equal to 0.5 mg/l
Aeration Basin pH	between 6 and 8 s.u.

The permittee shall monitor and record the values of these parameters for each operating aeration basin.
(9 VAC 5-80-110, 40 CFR 63.1330, 40 CFR 63.1334(d) and 40 CFR 63.143(f))

47. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:

a. The yearly production (in batches) for each polymer line, calculated as the sum of each consecutive 12 month period, as well as any other information required to demonstrate compliance with the emission limits contained in Condition #31.

b. Certification of submerged fill pipe (or bottom filling design) for each storage tank subject to Condition #32.

c. Records of annual inspections demonstrating compliance with the requirements of Conditions #33 and #34.

d. LDAR records required by 40 CFR 60, Subpart VV and Condition #35.

e. LDAR records required by 40 CFR 63.1331 and Condition #36.

f. SSM records required by 40 CFR 63.1335(b)(1)(I), if applicable.

g. Records of the monitoring data required by Condition #43 as required by 40 CFR 63.1335(d).

h. Records of any heat exchanger leaks and associated corrective action as required by 40 CFR 63.104(f).

i. Records of all information required to calculate Emission Average credits and debits.

j. For each Group 1 or Group 2 storage vessel, records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

k. For each Group 1 wastewater stream transferred off-site, record of the notice sent to the treatment operator stating that the wastewater stream contains organic HAPs which are required to be managed and treated in accordance with the provisions of 40 CFR 63, Subpart JJJ.

l. For each Group 1 wastewater stream transferred off-site, records that the transferee has accepted the responsibility that all Group 1 wastewater streams accepted will be managed and treated in accordance with the provisions of 40 CFR 63, Subpart JJJ.

m. Certification that the bio-treatment plant meets the requirements for an enhanced biological treatment process as defined in 40 CFR 63.145(h)(1).

n. Records of the bio-treatment plant monitoring data required by Condition #46 as required by 40 CFR 63.147(b)(4).

o. Group 2 wastewater stream, records required by 40 CFR 63.147(b)(8).

p. Records of the monthly inspections required by Condition #44 and of any indication that emissions may have bypassed the scrubber.

The records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110, 40 CFR 63.132(g), 40 CFR 63.147, 40 CFR 63.1326, 1328, 1330, 1331, 1332, 1335 and Condition 11 of the NSR permit dated 12/30/2003)

48. The permittee shall submit the following reports to demonstrate compliance with this permit. The content of and format of such reports shall be arranged with the Director, Piedmont Region. These reports shall include, but are not limited to:

a. Periodic Reports containing the information required by 40 CFR 63.1335(e)(6); including the information specified in 40 CFR 63.182(d) for equipment leaks subject to 40 CFR 63.1331, the information specified in 40 CFR 63.104(f)(2) for heat exchangers subject to 40 CFR 63.1328 and the information specified in 40 CFR 63.146(d)(1) for the bio-treatment plant. These reports shall be submitted semiannually, no later than 60 days after the end of each 6-month period.

b. Quarterly Reports for Emissions Averaging containing the information required by 40 CFR 63.1335(e)(6)(xi). These reports shall be submitted no later than 60 days after the end of each quarter.

c. Start-up, Shutdown and malfunction Reports containing the information specified in 40 CFR 63.10(d)(5)(i). These reports shall be submitted on the same schedule as the Periodic Reports referenced in paragraph (a) of this Condition.

The records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110 and 40 CFR 63.1335)

VI. Facility Wide Conditions

A. Limitations

49. Emissions from the operation of the entire facility shall not exceed the limits specified below:

Volatile Organic Compounds	223.3 tons/yr

(9 VAC 5-80-110 and Condition D.4 of the 11/30/1999 Consent Order)

B. Periodic Monitoring

50. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

b. Maintain an inventory of spare parts that are needed to minimize the duration of any air pollution control equipment breakdowns.

c. Have available written operating procedures for the related air pollution control equipment. These procedures shall be based on the manufacturer's recommendations, at minimum.

d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of training provided including names of trainees, date of training and nature of training.

Maintenance and training records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
(9 VAC 5-80-110 and Condition 16 of the NSR permit dated 12/30/20039)

51. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:

a. All information (production records, emission factors, material consumption) required to demonstrate compliance with the emission limit contained in Condition #49.

b. All records required by Condition #50.

The records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110)

C. Testing

52. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110 and 9 VAC 5-50-30)

53. If compliance testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows.

Pollutant	Test Method (40 CFR Part 60, Appendix A)
PM/PM-10	EPA Methods 5, 17
VOC/HAP	EPA Methods 25A, 18, 320
Visible Emission	EPA Method 9

(9 VAC 5-80-110)

D. MACT Subpart EEEE

54. Unless other wise specified in 40 CFR 63 Subparts A and EEEE, upon February 5, 2007, the organic liquid distribution operation shall be in compliance with all applicable provisions of 40 CFR 63, Subparts A and EEEE.
(40 CFR 63 Subparts A and EEEE and 9 VAC 5-80-110)

VII. Insignificant Units

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, record keeping or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110. The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (5-80-720 B)	Rated Capacity (5-80-720 C)
0105	Polymer Plant L1 Monomer Filter Vent	5-80-720 B	VOC	
0106	Polymer Plant L2 Monomer Filter Vent	5-80-720 B	VOC	
0107	Polymer Plant L3 Monomer Filter Vent	5-80-720 B	VOC	
0108	Polymer Plant L4 Monomer Filter Vent	5-80-720 B	VOC	
0111	Polymer Plant L1 Chip Water Dryer Vent	5-80-720 B	PM/PM10	
0112	Polymer Plant L2 Chip Water Dryer Vent	5-80-720 B	PM/PM10	
0113	Polymer Plant L3 Chip Water Dryer Vent	5-80-720 B	PM/PM10	
0114	Polymer Plant L4 Chip Water Dryer Vent	5-80-720 B	PM/PM10	
0135	Fores Tank	5-80-720 B	VOC	
0140	Polymer Plant Caustic Tank	5-80-720 B	VOC	
0141	Dowtherm Tank	5-80-720 B	VOC	
0153	Still #1 Seal Pot Vent	5-80-720 B	VOC	
0154	Still #2 Seal Pot Vent	5-80-720 B	VOC	
0162	Polymer QC Lab Hood	5-80-720 B	VOC	
0163	Polymer QC Lab Hood	5-80-720 B	VOC	
0164	Polymer QC Lab Hood	5-80-720 B	VOC	
0165	Polymer QC Lab Hood	5-80-720 B	VOC	
0166	Autoclave Agitator Motor Air Vent	5-80-720 B	VOC	
0167	Autoclave Agitator Motor Air Vent	5-80-720 B	VOC	
0168	Autoclave Agitator Motor Air Vent	5-80-720 B	VOC	
0169	Autoclave Agitator Motor Air Vent	5-80-720 B	VOC	
0170	Ball Mill/Slurry Room Exhaust	5-80-720 B	VOC	
0171	Polymer Maintenance Shop Room Vent	5-80-720 B	PM/PM10	
0172	Polymer Shop Welding Hood Vent	5-80-720 B	PM/PM10	
0174	Catalyst Preproom Hood	5-80-720 B	VOC	
0175	Blue Dye Exhaust Hood	5-80-720 B	VOC	
0176	Syloid Mix Area	5-80-720 B	PM/PM10	
0178	Propane Tank	5-80-720 B	VOC	

2042	B83 Crystallizer Cyclone	5-80-720 B	PM/PM10	
2043	Truck Loading Station Cyclone	5-80-720 B	PM/PM10	
7007	Pack Shop Pump Room , 1st Floor	5-80-720 B	VOC	
7008	Pack Shop Pump Room, 2nd Floor	5-80-720 B	VOC	
4471	L44 Extruder Area Vent #1	5-80-720 B	PM/PM10	
4472	L44 Extruder Area Vent #2	5-80-720 B	PM/PM10	
4572	L45 Latex Prep. Room	5-80-720 B	VOC	
4573	L45 Latex Room Flex Vent	5-80-720 B	VOC	
4641	L46 Web Slitting and Edge Trim Exhaust	5-80-720 B	PM/PM10	
4764	L47 Lab Hood Exhaust	5-80-720 B	VOC	
4765	L47 QC Lab Oven Vent	5-80-720 B	VOC	
3001-3019	Reclaim Chip Bunkers #1-19	5-80-720 B	PM/PM10	
3020	Chip Transfer Cyclone	5-80-720 B	PM/PM10	
6061-6065	Pelletizer Chip Water Dryers	5-80-720 B	PM/PM10	
6076	Railcar/Truck Chip Transfer	5-80-720 B	PM/PM10	
6075	Flake and Fines Box-Out	5-80-720 B	PM/PM10	
1021	Fuel Oil Tank #1	5-80-720 B	VOC	
1022	Fuel Oil Tank #2	5-80-720 B	VOC	
1023	Utilities Caustic Tank	5-80-720 B	VOC	
1024	Sodium Hypochlorite Tank	5-80-720 B	VOC	
1025	Sodium Hypochlorite Tank	5-80-720 B	VOC	
9060	P6 Slitter Blade Exhaust	5-80-720 B	PM/PM10	
9080	P8 Slitter Blade Exhaust	5-80-720 B	PM/PM10	
9090	P9 Slitter Blade Exhaust	5-80-720 B	PM/PM10	
9100	P10 Slitter Blade Exhaust	5-80-720 B	PM/PM10	
9110	P11 Slitter Blade Exhaust (blade)	5-80-720 B	PM/PM10	
9111	P11 Slitter Blade Exhaust (web cleaner)	5-80-720 B	PM/PM10	
9112	P11 Slitter Blade Exhaust (motor cooling)	5-80-720 B	PM/PM10	
9120	P12 Slitter Blade Exhaust (blade)	5-80-720 B	PM/PM10	
9121	P12 Slitter Blade Exhaust (web cleaner)	5-80-720 B	PM/PM10	
9122	P12 Slitter Blade Exhaust (motor cooling)	5-80-720 B	PM/PM10	
9123	P12 Slitter Main Drive	5-80-720 B	PM/PM10	
9130	P13 Slitter Blade Exhaust (blade)	5-80-720 B	PM/PM10	
9131	P13 Slitter Blade Exhaust (cabinet)	5-80-720 B	PM/PM10	
9132	P13 Slitter Corona Treater	5-80-720 B	VOC	
9510	P8-10 Slitter Edge Trim Cyclone	5-80-720 B	PM/PM10	
9520	Core Cutter	5-80-720 B	PM/PM10	
8000	Innovation Center (I.C.) Ball Mill A	5-80-720 B	PM/PM10	

8001	I.C. Ball Mill B	5-80-720 B	PM/PM10	
8002	I.C. 1st Floor Fume Hoods	5-80-720 B	VOC	
8003	I.C. 2nd Floor Fume Hoods	5-80-720 B	VOC	
8004	I.C. Maintenance Shop	5-80-720 B	PM/PM10	
8005	I.C. Ball Mill Flex Vent	5-80-720 B	VOC	
8006	I.C. Eductor Hood 1" Extruder	5-80-720 B	VOC	
8007	I.C. Instrument Hood	5-80-720 B	VOC	
8008	I.C. Technical Dryer Vent	5-80-720 B	VOC	
8010	I.C. Storage Building Flex Line	5-80-720 B	VOC	
8021	Tech Service Wet Lab	5-80-720 B	VOC	
8022	Tech Service High Bay	5-80-720 B	VOC	
8023	Tech Service Solvent Storage Exhaust	5-80-720 B	VOC	
8031	Film QC Lab	5-80-720 B	VOC	
8032	Main Latex Stirrer	5-80-720 B	VOC	
8033	Main Latex Tank	5-80-720 B	VOC	
8034	L40/L45 Stirrer	5-80-720 B	VOC	
8035	L40/L45 Flex Line	5-80-720 B	VOC	
8036	L40/L45 Lab Hood	5-80-720 B	VOC	
7001	Filter Shop Sump	5-80-720 B	VOC	
7002	Pack Shop Caustic Tank	5-80-720 B	VOC	
7005	Die Shop Sink Feed	5-80-720 B	VOC	
7006	Die Shop A/C Hood	5-80-720 B	VOC	
7021	Ultrasonic Cleaner	5-80-720 B	PM/PM10	
7022	Main Shop Welding	5-80-720 B	PM/PM10	
7023	Forktruck Battery Hood (West)	5-80-720 B	VOC	
7024	Forktruck Battery Hood (East)	5-80-720 B	VOC	
4041	L40 Corona Treater	5-80-720 B	VOC	
4312	L43 Crystallizer – Steam	5-80-720 B	PM/PM10	
4341	L43 Corona Treater	5-80-720 B	VOC	
4441	L44 Corona Treater	5-80-720 B	VOC	
4613	L46 Crystallizer – Steam	5-80-720 B	PM/PM10	
4741	L47 Corona Treater	5-80-720 B	VOC	
0119A-D	Polymer Plant Hold Up Hoppers (one for each polymer line; only 119D (L4) has an external vent		PM/PM10	
0115-0118	Four (4) Polymer Chip Blenders (one for each polymer line)	5-80-720 B	PM/PM10	

VIII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of applicability
No inapplicable requirements identified.	-	-

Nothing in this permit shield shall alter the provisions of § 303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to § 114 of the federal Clean Air Act, (ii) the Board pursuant to § 10.1-1314 or § 10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to § 10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

IX. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless a timely and complete renewal application consistent with 9 VAC 5-80-80 has been submitted to the Department by the owner, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.

3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.

4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

   a. The date, place as defined in the permit, and time of sampling or measurements.

   b. The date(s) analyses were performed.

   c. The company or entity that performed the analyses.

   d. The analytical techniques or methods used.

   e. The results of such analyses.

   f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (9 VAC 5-80-110 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

   a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

   b. All deviations from permit requirements. For purposes of this permit, a deviation means any condition determined by observation, data from any monitoring protocol or any other monitoring which is required by the permit that can be used to determine compliance. Deviations include exceedances documented by continuous emission monitoring or excursions from control performance indicators documented through periodic or compliance assurance monitoring. (9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to § 114(a)(3) and § 504(b) of the Federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.

2. A description of the means for assessing or monitoring the compliance of the source with its emissions limitations, standards, and work practices.

3. The identification of each term or condition of the permit that is the basis of the certification.

4. The compliance status.

5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the certification period.

6. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.

7. The status of compliance with the terms and conditions of this permit for the certification period.

8. Such other facts as the permit may require to determine the compliance status of the source. One copy of the annual compliance certification shall be sent to EPA at the following address:

   Clean Air Act Title V Compliance Certification (3AP00)
   U.S. Environmental Protection Agency, Region III

1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Piedmont Region within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition IX.C.3 of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours, notify the Director, Piedmont Region by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within two weeks provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Piedmont Region.
(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Action for Cause

This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
(9 VAC 5-80-110 G.4)

Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:

a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is the potential of, a resulting emissions increase;

b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;

c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emission cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;

d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;

e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;

f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);

g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and by 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.

(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the board, within a reasonable time, any information that the board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the board along with a claim of confidentiality.

(9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G. (9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355. (9 VAC 5-80-110 H)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited, to the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

2. Application of asphalt, oil, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;

4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and

5. The prompt removal of spilled or traced dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-50)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. (9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80 Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the board if additional federal requirements become applicable to a major source with a remaining permit term of three or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
   (9 VAC 5-80-160)

2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
   (9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.

2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

   a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
   b. The permitted facility was at the time being properly operated.
   c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
   d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.

4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The board may suspend, under such conditions and for such period of time as the board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substance subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A - F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required, under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110 except subsection N shall be included to determine compliance.

2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)